GRUMMAN
plane news

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Latest Japanese Import: Grumman E-2C Hawkeye

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Grummanite survives history's worst yacht racing disaster

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Smyth survives storm aboard Navy yacht in Fastnet race

Bob Smyth recently sailed with "the big boys ... Ted Turner and the like" in the Fastnet yacht race, historically one of the world's toughest sailing races.

But even with this reputation, none of the big boys anticipated what the Irish Sea had in store.

On Monday, August 13, gale winds struck the fleet of 300 ships. The raging summer storm claimed the lives of 15 racing sailors. Nearly 150 persons had to be rescued from two dozen disabled or sinking ships.

Gung-ho crew

Though Grumman's director of flight test admits it was the toughest sailing challenge he's faced in his life, he had full confidence in his fellow crewmen and the sailing vessel. He was the only civilian on board the U.S. Naval Academy's aluminum sloop, *Alliance*, crewed by what Bob describes as "a bunch of gung-ho midshipmen," and skippered by his brother-in-law, Capt. Ned Shuman. A former A-6 pilot, Shuman is commanding officer of the Naval Station, Annapolis, and commodore of the Naval Sailing Squadron.

What added to his confidence was the fact that together they had recently won the trans-Atlantic yacht race from Marblehead, Mass. to Cork, Ireland a few weeks earlier.

But it was during the prestigious Fastnet race that *Alliance* and her crew fought the tougher war against Mother Nature. The 605-mile race covered a course running from the Isle of Wight off southern England, west around the Fastnet Rock which juts from the sea at the southern tip of Ireland and then back to Plymouth, England.

The race began on Saturday, August 11. "By Sunday night, we had sailed about 140 miles," says Smyth. "On our radio, we had heard that gale force winds were expected withing the next 12 hours. Barometric pressures dropped from 30 to 29."

By Monday night, the *Alliance's* sails had been reduced to a storm staysail and storm trisail. Winds as high as force 10 (48-55 knots, 55-63 mph) swept across the sea.

Distress reports

Later that evening, "we began to hear reports of boats in distress." Many skippers later reported that their ships would climb up one side of the wave, but when it reached the top of the crest, there would be nothing beneath it and the boats would drop 10 or 20 feet. Some lost their rudders; a few abandoned ship. Meanwhile, the mighty all-aluminum 54-foot *Alliance* continued on course toward Fastnet Rock..."riding the waves like a duck."

Rain fell like "shotgun pellets. Spots of phosphorescence on sails and on foul weather gear shone like hot cigarette ashes," remembers Smyth.

"You have a tendency to overestimate the wave heights. I'd say the average was about 15 feet, but there were occasional freak waves, a combination of waves that doubled in size."

On his 2 to 5 a.m. shift, Smyth noticed a massive wall of water out of the corner of his eye. It hit the *Alliance* broadside.

Crashing over the deck, the colossal wave tumbled bodies like rag dolls. "It was akin to body surfing when you come up with sand in your nose."

One midshipman cut his chin and dislocated his jaw; another collided with the wheel and knocked Smyth on the seat of his pants. "Though I didn't hit my head, I started to see stars." It was one of the strobe lights on the afterrail that had been turned over by the wave.

The collision at the helm jammed the wheel. The crew below came topside to free it.

"Luckily, we continued to sail on course. It would have been embarrassing if the boat went into irons or tacked."

After the sea wall swept over the *Alliance* deck, the jutting waves and strong gales persisted. At sunrise, the crew sighted "Fastnet Rock...as an impressive sight...a tall lighthouse jutting out of a rocky isle. Its base was aglow with green phosphorescense."

Bad news

By noon Tuesday, the wind was abating and the *Alliance* sported more sail. By early evening, the spinnaker was up and the USNA sloop was streaming pat the Scilly Isles off the rugged coast of southern England. At 4:30 Wednesday afternoon, she docked at the Royal Marine facility in Plymouth. It was then that the crew learned of the tragic happenings that beset fellow sailors in the storm they had just weathered. "We had to walk through the bar to get to our rooms," says Smyth. Needless to say, "We were delayed there for a couple of hours."

Would he do it all over again? "It was sheer exhilaration," reflects Smyth, though he contends that conditions aboard the bare-to-the-bones yacht were "spartan." But both voyages were fun. "I'd like to do it again, but next time under more elegant conditions, perhaps with some coctails before dinner. This time it was almost all canned spaghetti and pop tarts."

As a test pilot and racing sailor, Smyth firmly believes he's had the best boxseats to see the forces of nature at work. "I've been lucky to have seen nature give a mighty performance in the Irish Sea and North Atlantic. It's awesome."

Smooth Sailing. *On the last leg of the 605-mile Fastnet yacht race, Bob Smyth (L) lets midshipman take the helm. Only 12 hours earlier, the* **Alliance** *crew fought 15-foot high waves and gales up to 50 m. p. h.*

Anchors away. *The U. S. Naval Academy* **Alliance** *sails on calmer seas of Chesapeake Bay.*

obituaries

ROBERT H. WATSON of Contour Development, Plant 35, died July 6 at the age of 61. He had been with the company since 1956 and resided at 27 Gotham St., Valley Stream.

NAPOLEON W. JONES of Software Development, Plant 31, died July 8 at the age of 43. He had been with the company since 1963 and resided at 21 Pitcher St., N. Babylon.

OTHNIEL F. GRONES of Parts Paint, Plant 2, died July 10 at the age of 52. He had been with the company since 1974 and resided at 41 Woodside Ave., Freeport.

JAMES LOWE of Assy. Method & Plnng., Plant 2, died July 22 at the age of 59. He had been with the company since 1965 and resided at 215 Pinelawn Ave., Copiague.

JOHN A. McGILL of Contour Development, Plant 35, died July 23 at the age of 43. He had been with the company since 1964 and resided at 4 John St., Smithtown.

RUSSELL R. RUTLEDGE of Indust. Eng., Plant 77, died July 31 at the age of 61. He had been with the company since 1964 and resided at 1505 Crescent Ct., Apt. 4, Lake Park, Florida.

EDWARD POLLACK of Wing Final Assy., Plant 3, died August 2 at the age of 49. He had been with the company since 1952 and resided at 84 Jackson Ave., Copiague.

EUGENE ROZA of ILS Tech. Illus., Plant 15, died August 6 at the age of 53. He had been with the company since 1975 and resided at 31-90-140th St., Flushing.

JOHN W. COYLE of Supply Asset Control, Plant 21, died August 7 at the age of 63. He had been with the company since 1966 and resided at 935 12th St., W. Babylon.

ROBERT FRANCESS of Instru. Mgmt. Staff, Plant 5, died August 8 at the age of 33. He had been with the company since 1963 and resided at 887 Bohemia Parkway, Bohemia.

MERLIN C. BJAALAND of Supp. Equip. Serv., Plant 35, died August 11 at the age of 38. He had been with the company since 1979 and resided at 1052 W. Waterloo Road, Oak Harbor, Washington.

GEORGE W. MOHR of ILS RF/Controls, Plant 7, died August 14 at the age of 51. He had been with the company since 1960 and resided at 23 Regina Dr., Sayville.

G-III update. *The wings for the new Gulfstream III jet were recently mated to the fuselage at Gulfstream American's facility in Savannah, Georgia. Grumman Aerospace is designing the new business jet, which enters production next year.*

Boeing 767 orders give Grumman growth

Grumman's involvement in Boeing's 767 commercial jet program is becoming more and more visible in Bethpage, Glen Arm and Stuart.

It's been seven months since Grumman landed its biggest subcontract in nearly 15 years: a multi-million dollar agreement with Boeing Commercial Airplane Company to produce 300 center-wing sections for the new 767 commercial jet.

In February, Don Schlegel, Grumman 767 Program manager, began assembling his team in Plant 25. This program team consisting of representatives from engineering, procurement, manufacturing, quality control, Stuart Operations, and Boeing, is concentrating on the "upfront" planning necessary to assure Grumman's ability to meet schedule, quality and cost objectives.

A few weeks ago, the first of many tooling fixtures was completed in Plant 2. "As part of our 'pull ahead' plan," says Tom Main, director of Boeing Programs, "we've begun tooling design and manufacturing earlier than originally scheduled to eliminate any overloading in the Tooling Department later this year."

Production of detailed parts in Plants 2 and 3 is slated to begin in January 1980. In-house manufactured machined parts will be made in Plants 3 and 56, while Plant 77 will be responsible for final assembly of the center-wing section. The first section is slated for delivery to Seattle in December 1980.

Grumman is also heavily into the raw material procurement phase, reports Main. "The growing leadtimes dictate that we concentrate on speeding up procurement of raw materials."

One of the major concerns since Grumman began working with Boeing on the 767 program has been "learning the Boeing way," states Main. "As a major subcontractor, we've been undergoing an extensive learning process to find out how to best serve our customer." In recent years, Grumman has been building a successful working relationship with Boeing by producing top quality wing skins for the 727 at Plant 56 in Glen Arm, Maryland.

Meanwhile, Boeing reports that orders for its new fuel-economical 767 twin-jet continue to grow. As of this date, 115 orders have been received.

The 767 is the first new Boeing airliner to go into production since the 747 in 1966 — and is the first member of a new family of Boeing airliners for short, medium, and long ranges. Developed in an intensive six-year program, the 767's design has been refined to give maximum fuel performance, operational flexibility, low noise levels, advanced airplane systems, and growth potential.

Make room for Boeing

Construction of the new manufacturing facility at Stuart Operations, Florida, got underway on Tuesday, August 21.

"The building should be enclosed by the end of the year," reports Tom Cunniffe, director of Facilities Engineering. Tooling fixtures are scheduled to be installed in January 1980.

The new site for the final assembly of the Boeing 767 wing center section includes 68,000 sq. ft. in the high bay manufacturing area; 25,500 sq. ft. in the low bay area; and 8,000 sq. ft. of office space.

The new building should be fully occupied by April of next year, says Cunniffe.

Japan to buy four E-2C's with option for four more

Grumman Aerospace has a new customer for the E-2C Hawkeye: the Japanese Air Self Defense Force (JASDF).

Chairman and President George Skurla announced that the Japanese will purchase four Hawkeyes in fiscal 1981, and have plans for an additional four in fiscal 1983. First delivery is slated for May of 1982.

"The sale of our E-2C system to Japan is further evidence of its proven operational effectiveness," said Skurla. "Several other countries have expressed interest in the Hawkeye, and I believe the international market for this defensive system will continue to grow through the 1980's."

A letter of offer by the U. S. government for the initial four aircraft is expected to be signed by the Japanese in early September. The agreement is valued at $166 million. In addition, Japan may contract for ground support equipment and also for training of JASDF flight and maintenance personnel.

Topped by a 24-foot diameter rotating radome and carrying 10,000 pounds of sophisticated electronic equipment, the E-2C can monitor three million cubic miles of air space. With its General Electric APS-125 advanced radar processing system, the

Hawkeye automatically detects, identifies, and tracks enemy aircraft, over both land and water, at ranges approaching 300 miles. It also monitors movement of enemy ships and land vehicles. Passively, it detects enemy radar emissions to the maximum line-of-sight ranges.

Japan's E-2C's will be identical to those Grumman builds for the Navy, according to program manager Chuck Muller. JASDF will use the Hawkeye in conjunction with their existing ground-based early warning system.

L.I. Congressmen:

F-14, A-6E vital to U.S. security

Three Long Island Congressmen gave their support to the U. S. Navy's procurement of 36 Grumman F-14 Tomcat fighters in recent hearings of the Congressional Subcommittee on Procurement and Military Nuclear Systems.

Representatives Norman Lent, Thomas Downey and William Carney all gave testimony on the importance of the Tomcat to the country's defense needs and asked that Congress agree to the authorization of the 36 airplanes for fiscal year 1980.

"I share the view of top Navy experts that only the F-14 provides the air superiority capability the Navy needs, now and for decades," said Representative Lent. He called the Soviet Backfire bombers the major maritime air threat of the 1980s and concluded that they are a threat that "only the F-14 can counter."

Representative Downey urged the subcommittee to recommend the procurement of both the 36 F-14 and 12 A-6E Intruder aircraft. "My general view is that we spend more on defense than we need and we spend it less efficiently than we should." But, he continued, "It is rare that I urge an increase, but I believe the unique—I repeat, unique—capabilities of these aircraft do require an increase above the request in this case."

The F-14 and A-6E, said Downey,, "are proven, reliable operational aircraft. They are not some developer's pipe dream."

Representative Carney, in his statement to the subcommittee, said that the decision to cut back from 36 to 24 F-14s would be financially unwise. "The proposal to reduce procurement of the F-14 which purports to save tax dollars will actually work against the economies of scale. The proposed program stretch would increase the unit procurement cost of the remaining aircraft by some 4.7 million dollars and increase the total program cost by nearly 600 million dollars. This is not a cost-effective purchasing method."

Asserting that the A-6E "performs a function vital to the defense of our servicemen," Carney called for the "maintenance of our all-weather attack program. Let us keep the A-6E in production to avoid a serious lack of such capability in just a few years. With no replacement in sight, the A-6E is an even more crucial weapon in our arsenal for defense. The funds should be added for the Intruder as well as the Tomcat to the Department of Defense budget. I ask your cooperation in giving our armed forces the best in equipment so that we may have the best in security."

Women at Grumman:

You've come a long way -- maybe

The memo says that the American Institute of Aeronautics and Astronautics will be holding a computer graphics seminar at Grumman; a PLANE NEWS representative is asked to attend. For more information, the memo says, call R. Russo on Ext. 7075.

We dial the number and ask to speak to Mr. Russo.

Mr. Russo is a resource planning engineer. His name is Rosemary.

At Grumman, as in many other companies, many people still make the assumption that if it's issuing memos, it's got to be a man. However, company statistics show that more and more women are going into managerial and professional areas, and still others are moving into the so-called "non-traditional" jobs.

Approximately 20,000 people are employed by Grumman Aerospace; about 2,700 of those, or 14 percent, are women. That's on the low side when compared with the national employment picture. Women today make up nearly 42 percent of the United States' workforce. However, aerospace has always attracted more men than women, and Grumman's numbers are comparable to those of other aerospace firms.

What is the outlook for that 14 percent? What do they bring to their jobs, and what do they expect in return?

"Everything," says one woman. "I work hard, I've prepared myself for this job, and I'm good at it. I was promoted a year and a half ago, and there's an opening in my department now that I know I'm being considered for. I'm very optimistic about my future here."

She's not alone in her thinking. In recent years, Grumman has encouraged the advancement of women through courses, seminars, and training programs. For example, the Professional Effectiveness Workshop, which is aimed at women in non-management jobs. The course helps women learn to be assertive, to assess their skills, and to plan for their career goals.

A second course is the Management Development Course for Women, for those who are already managers or potential managers. It focuses on the fundamentals of management, with emphasis on the problems that women face in the business world.

There is also the new Responsibility Center Training Program for Women which runs a full year; the first one, with an enrollment of 37, started in June. The program attempts to provide a broader understanding of the scope of Grumman's operations. As with the other courses, women are nominated by their supervisors for participation.

Although there are career paths and Affirmative Action Programs and seminars, it takes more than company guidelines for women to advance. Policy alone cannot change personal attitudes, which many women cite as the biggest problem they face.

Roy Kohlhausen, who coordinates the Responsibility Center Training Program, agrees.

"When a problem comes up in a department, some male supervisors won't think to ask for a woman's opinion or advice. Instead, they'll go to the men they're more familiar with and may depend on them exclusively for more complicated tasks. The women in the department may not get a chance to shine by handling challenging assignments. Their abilities go unutilized, and they never truly belong to the department's network."

But attitudes of other women can hurt, too.

"Men bring each other's careers along," says one woman, "but women don't do enough to help one another. Too often, they seem to feel threatened by one of their rank's trying to make it. It's the wrong way to compete.

"A position was listed on the Job Opportunity Bulletin about a year ago," she says. "I felt qualified, and I didn't make any secret about the fact that I was applying for it. The hostility from a few women in my group was incredible. I took all their remarks -- 'Well, la-di-da, here comes Ms. Executive'--as good-natured kidding at first. But it wasn't good-natured at all. When I didn't get the job, they were obviously delighted. I think I was more disappointed in their behavior than in not getting the position."

Other women have worked out networks of their own; women they go to for advice and assistance.

"I've found the women here to be

[*Photos by Bob Settles and Fred Annette*]

very supportive," one woman in Program Planning says. "Frequently when I have a business problem I go to other women to talk it out and work out solutions. You can learn your job, but understanding the underlying political structure of any organization can be very difficult. You have to know who your friends are."

"...understanding the underlying political structure of any organization can be very difficult..."

For Leslie Goldstein, an attorney in Plant 35, discrimination is in the eye of the beholder. "Sure, a few sexist digs here and there, but nothing I'd take seriously or get upset about. You find that anywhere. I got it in law school. I'm young, and not very tall, and I'm still new here; so if I'm looked upon with more doubt than a middle-aged man would be, I can handle that. But I'm not worried that being a woman is going to hold me back. I feel that my success will depend on my ability and my performance."

"I don't even think about it," says another woman, a production worker in a shop in Plant 2. "I know there still aren't many women who do the sort of work I do, but I never really thought of myself as a pioneer. Lots of women worked in the shop during the war. I don't see my job as a political statement -- it's just what I do to earn a living. And I never wanted to work behind a desk. I don't think about discrimination -- I simply try to get along with everyone. It's really no big deal."

Adrienne Ruggiero goes along with that. She works in Plant Protection and was promoted to sargeant not long ago. She has been with the company for five years.

"I'm not the first woman they've had in Plant Protection, but I think I'm the first to stay for any length of time. It can be a tough job because you have to work rotating shifts and arrange the rest of your life around it."

Ruggiero has an associate's degree in police science and still thinks about going back to school.

"With shift rotation, it could be a problem," she says. "But even if I made the decision to go for a career change and went back to school for something unrelated to my present job, I'd still want to stay in the company. I think they try very hard here to treat all people fairly."

"Automatic success has never fallen into the laps of men," says Mado Breunig of Product Development Operations Center. "It's not going to fall into the laps of women, either. I feel very lucky -- lucky to be at the right place at the right time. This is a terrific time for women; there are great opportunities, and I think women who don't take advantage of that are just plain dumb.

"Some women fail, and then they say, 'It's because I'm a woman. They resented me; they never gave me a chance.' I think that's only rarely the case. Of course there are people who will try to keep you down; but there are many more who want women to succeed, who care about their advancement," says Breunig.

"Too often, we are afraid to take risks; we waste our energy and our lives believing, 'I can't, I shouldn't, I don't dare,' when our success has really been up to us all along."

J.G. Pastoral

F.J. Curasi

M.N. Picinich

J.R. Carbone

R.W. Bailey

E. Burgess

P. Shemanski

J. Ciccone

N. Palmer

service milestones

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Alfred J. Fenn, Est. Resources (30)

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Walter J. Bruns, Assy. Method & Plnng. (2)
Thomas J. Holmes, Prod. Plnng. (2)
Marjorie R. Goshefski, Corp. Plnng. Cntrl. & Budg. (5)
Charles Famera, Production (88)

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Roy W. Harvey, Sub. - Assy. (2)
Emanuel Gumbs Jr., Ctr. Sect. -Sub. Assy. (2)
John W. Herlihy, Ctr. Sect.-Sub. Assy. (2)
William H. Hale, I.E. Flow Seq. Plnng. (2)
Robert C. Body, Insp.-Mech. (2)
Alexander Censoprano, Ctr. Sect. Final (3)
Gustave E. Preiser, Honeycomb Prefit. (3)
John Kendrick, Cust. Reqts. (5)
Maurice F. Greene, Structures (6)
Nicholas A. Evangelides, Indust. Eng. (6)
Edward L. Conklin Jr., Manpower Budg. & Cost Stat. (6)
Charles H. L'Hommedieu, Final Assy Insp. (6)
George Felber, Corp. Instr. Flt. Data (7)
Joseph Heberlein, Maint.-Rearrangement (12)
James J. Fitzpatrick, Elect. Test (14)
Walter S. Foray Jr., Trans.-Ops. (20)
Edward J. Smatlak, Prog. Matl. Mgmt. (25)
Martin Cohen, Tech. Dir. (25)
Ann M. Manelski, Gen. Subcontracts (30)
Anthony J. Crammer, Subcontractor Surv. (30)
Alex Adamcewicz, Mfg. Sched. (30)
Walter C. Martens, ILS Resource Appl. (35)
Silvio A. Bellofatto, Standards (35)
Robert P. Miller, Wing Inner Panel & Combo. (36)
Edgar W. Tappen, Final Assy. (36)
Thomas W. Attridge Jr., Training Syst. Progs. (36)
William A. Small Jr., Tech. Reqts. (40)
Eugene J. Coll, Operations (40)
Henry G. Mehl, Plnng. Mgmt./Staff (43)
Robert H. Rispaud, Tech. Ops. (77)
Wilford B. Brown Jr., Prog. Mgt. (77)
Thomas G. Garrity Jr., A/C Syst. Serv. (80)

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John G. Pastoral, Software Dev. (4)
Felix J. Curasi, Struct. Des. (5)
Matthew N. Picinich, Maint.-Rearrangement (6)
John R. Swenk, Syst. Anal. (7)
Joseph R. Carbone, Corp. Instr. Flt. Data (7)
Edward Silvia, Airport Ops. (7)
Robert W. Bailey, Air Traffic & Radio Comm. (7)
Eugene C. Burgess, QC Lab (10)
John Morochko, B/P Warehouse (17)
Paul E. Shemanski, Plt. Protection (18)
Joseph J. Ciccone, Struct. Des. (25)
Norman C. Palmer, Prod. Cntl. -Parts Cntrl. (30)
Anna Sinicropi, Reqts. Plnng. (30)
Robert V. Biagiotti, ILS Prog. Mgt. (30)
Thomas G. Cunniffe, Fac. Admin. (30)
Daniel J. Shybunko, ILS Prog. Mgt. (35
Charles F. Wentzel Jr., ILS Elect. Eng. (35)
Edward J. Lombardo, Struct. Anal. (35)
William J. Cowan, Config. Data Mgmt. (40)
Holt S. Hix, Prog. Mgt. (43)
Charles Checola, Indust. -Eng. (77)
Alfred F. Schaefer, ILS Site Mgt. (80)
John H. Norris Jr., West Coast Office (87)
Robert J. Anderson, ILS Logistic Serv. (94)
Pompea M. Sechrengost, Payroll (111)

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Robert C. Lind, ILS Elect. Pack. (1)
Henry Kowalski, Alodine (2)
Lino L. Olivier, Forming Heat Treat & CM (2)
Vincent DeStefano, Mfg. Mgmt. & Staff (2)
Henry G. Broker, Jigs & Fixtures (2)
Raymond A. Krumenacker, Maint. -Facil. Equip. & Gen. (2)
Alfred Mielczarski, Insp. - Mech. (2)
Ronald Sup, Press (3)
William Nelson, Honeycomb Core Dtls. (3)
David J. Bergen, Maint.- Rearrangement (3)
Frederick E. Waldeck, Maint. -Facil. Equip. & Gen. (3)
Arthur McCrum Jr., Flt. Oper./Gulf. (4)
Michael N. Rocco, Out-of-Prod. Spares (4)
Renso L. Caporali, Business Dev. Mgt./Staff (5)
Robert Ambruster, Instru. Test (6)
Howard F. Dietz Jr., Office Mgmt. (6)
James F. Lindstrom, Fluids (6)
Robert L. Kreeb, Structures (6)
Edward C. Parker, Corp. Instru. Syst. (7)
Ralph W. Hilbert, Corp. Instr. Flt. Data (7)
Jeff A. Quarles, Cntrl. Receiving (24)
Lawrence M. Murphy, Rec.-Insp.-Mach. Parts (24)
John W. Stralko, Operations (25)
Jacques H. Belleoudry, Vehicle Liaison Eng. (25)
Edmund L. LeCun, Corp. Instru. Systm (25)
Joseph G. Amoroso, Corp. Instru. Syst. (25)
Olaf K. Costello, Inventory Plan. & Anal. (30)
Charles B. Trimble, Gen. Subcontracts (30)
Robert F. Kearney, Fac. Admin. (30)
Salvatore Fiorillo, M/T Equip. Eng. (30)
Doris J. Turner, Contract Revenue (30)
James Fay Jr., Cont. Cost Anal. (30)
John H. Magenheimer, ILS Admin. (31)
Virginia N. Larson, Info. Rec. & Serv. (35)
Stavros J. Danos, Fluid Dynamics (35)
Isaac A. Stakem, ILS Commod. Cntrl. (40)
William J. Wernicke, Crew Syst./Equip. Integ. (40)
Richard E. Spellerberg, Simulation (40)
Jerome D. Andrea, Plt. Protection (43)
Albert E. Helrigel, Production (43)
Walter K. Langendorf, Plnng. & Anal. (43)
Andrew M. Yevoli, Invent. Mgt. (44)
William F. Carberry, Invent. Mgt. (44)
Robert H. Bornschein, Cnctr. Maint. Serv. (75)
John S. Jarrett, ILS Logistic Srv. (79)
Harold P. Ellison, Welding (86)
Ralph J. Siegel, Eng. Mgmt. & Staff (89)
Robert E. Wagoner, ILS Logistic Serv.

Salvatore A. Simonetta, Prod. Cntl. Parts Cntrl (1)
Henry C. Kipybida, Prod. Cntl. Parts Cntrl (1)
Robert P. Robinson, ILS Commod. Cntrl. (1)
James C. Sherry, Sub-Assy Major (2)
Raymond Plawski, Invent. Cntrl (2)
Joseph Carter, Factory Plnng. (2)
Michael DiNoia, Business Mgt. (2)
William J. Reisert Jr., Stockroom (2)
Isidore Scheinberg, Jigs & Fixtures (2)
Steven Bank, Mfg. Tech. Mgt/Staff (2)
Stanley V. Mazur, Mfg. Program Plnng. (2)
John J. Koberlein, Equip. Tech & Fasting Syst. (2)
James Joyce, Trans-Ops. (2)
William H. Kovarik, Maint-Rearrangement (2)
Joseph Gervasio, Maint. Facil. Equip. & Gen. (2)
Thomas W. Parascondol, Food Serv. (2)
Robert J. Koster, N/C Mach. (3)
William G. Connors, Maint-Rearrangement (3)
Arthur H. Badstuebner, Elect. Test (4)
Peter Rosato, Syst. Anal. (4)
Pasquale DiMarzo, Q.C. Mgt/Admin. (4)
Kenneth G. Wendel, Convent. Mach. (5)
Donald G. Myers, Instr. Test (5)
Michael Sheehan, Assy Method & Plnng. (5)
Aldo Albertuzzi, Maint-Rearrangement (5)
John DaPonte, Maint. Facil. Equip. & Gen.
William H. Lyons, Config. Data Mgmt. (5)
Edward S. Koroleski, Trans-Ops. (6)
William J. Hamilton, Jigs, Dtls. & Sub Assy (6)
Harvey Weiss, Corp. Instru. Syst. (7)
George R. Peck, Elect. Fab. (7)
Robert W. Korth, Flt. Avion. (8)
Eugene Stapleton, Flt. Avion. (8)
George E. Mirecki, QC Lab. (10)
Joseph Nardi, Templates (11)
Edward Lynch, Maint-Rearrangement (12)
Victor G. Henkel, Maint-Rearrangement (12)
Earl W. Freidank, Maint-Rearrangement (12)
Robert H. Anderson, Chem. Eng. & Proc. Stand (12)
Arnold London, Adv. Matl. & Proc. Dev. (12)
Robert E. Freyer, Adv. Matl. & Proc. Dev. (12)
Wilbur C. Lindstadt, Maint-Rearrangement (14)
Kathleen Rouchet, Repro Serv. (15)
Vincent C. Saputo Jr., ILS Tech. Writing (15)
Vincent J. Verteramo Jr., Trans-Ops. (20)
Walter H. Steigele, Trans-Equip. Maint. (20)
Robert W. Lyon, Syst. Anal. (25)
Wilbert F. Muller, Design Eng. Proj. Eng. (25)
Elizabeth E. Teale, Insurance & Records & Ben. (28)
Raymond F. Lazar, Reqts. Plnng. (30)
William F. Quirein, Cust Supp. Reqts. Mgt. (30)
Richard J. McGlade, Div. Anal. & Cnt. (30)
Lawrence A. Powers Jr., ILS Estimating (30)
Wilmur M. McCown, Environ. Cntrl. (30)
Walter W. Hock, Power Pl. Des. (35)
Robert F. Mehl, Final Assy. (36)
Franklin R. Marks, Mfg Resources (40)
Walter Kapps, Tech. Reqts. (40)
Herman C. Leuther, Power Pl. Des. (40)
Joseph S. Kozlowski, Drafting (40)
William R. Luneburg Jr., QC Quality eng. (40)
John R. Mohlenhoff, Elect. Box Pan & Draw Fab. (43)
Richard J. Goedtel, Invent. Mgt. (44)

15

Moses Ebron Jr., Hydraulics (1)
Arthur L. McClanahan, ILS Mech. Eng/Des. (1)
Gilbert L. Parachini, ILS Log. Sys. Dev. (1)
John J. Comerford, ILS RF/Cntrls. (1)
Philip Bila, ILS RF/Cntrls. (1)
Ting Shui Chow, ILS RF/Cntrls. (1)
Charles E. Frattini, ILS Supp. Ops. Proj. Mgt. (1)
Arthur L. Morgan Jr., Veh. Liaison Eng. (1)
Frank Ramacca, ILS Est. (1)
Vincent J. Corrado, ILS Est. (1)
Frank J. Irwin, Insp.-Mech. (1)
Walter Bertsch, Press (2)
Anthony A. Pyzeski, Alodine (2)
Leroy Madison Jr., Heat Treat (2)
Martin E. Susa, Steel Parts Assy. (2)
Elmore N. Reavis, Prod. Supervision (2)
George J. Buckley, Prod. Cntl.-Parts Cntrl. (2)
Donald M. Mazur, Prod. Release & Anal. (2)
John Ingrassia, Form Block (2)
James Bertwell, Cutter Grinder (2)
Ernest F. Swedberg, Conv. Mach. (3)
Joseph Cange, Conv. Mach. (3)
John T. Ebron, Final Assy. (3)
Frank A. Leotta, N/C Mach. (3)
Eugene E. Trosko, N/C Mach. (3)
Charlotte L. Auricchio, Prod. Supervision (3)
Robert J. Nagy, Mach. Oper-Tech. Serv. (3)
Donald J. Mayer, Indust. Eng. (3)
Octave G. Pekar, Stockrooms (3)
Kenneth S. Child, Veh. Liaison Eng. (3)
George J. Feres, Veh. Liaison Eng. (3)
Robert J. Boehm, Q.C. Tech. Serv. (3)
Guy F. Bizzoco, ILS Prog. Mgt. (4)
Frank J. Murphy, Software Anal. & Des. (4)
James L. Angell, Envirn. Cntrl. & Test (5)
William Krich, Stockrooms (5)
Arthur M. Cohen, ILA FR/Cntrls. (5)
George F. Rasmussen, Maint. Indust. Cntrl. (5)

Clifford N. Stahl, Struct. Test (5)
Gilbert H. Kelley, Equip. Therm. Des. (5)
Jonas A. Bilenas, Equip. Therm. Des. (5)
Jack L. Fox, Syst. Anal. (5)
Carl J. Pesce, Electro. Mech. Des. (5)
Martin Godofsky, Ops. Anal. (5)
Alan E. Lager, Config. Data Mgmt. (5)
William M. Shay, Corp. Syst. (5)
John A. Chambers, Prod. Cntrl. (6)
Sandra Pogue, Prod. Release & Anal. (6)
Murray Keitel, Corp. Instru. Syst. (7)
Robert Fodale, Corp. Instr. Syst. (7)
James T. McGuire, Elect. Fab. (7)
William Drower, Electronic/Elect. Prd. Suppl. (7)
Thomas A. Maltese, Elect. Test (8)
Thomas V. Higgins, Meas. Stnd. Lab & Log Ops. (12)
Albert J. Muller, Electro. Mech. Des. (14)
John R. Anderson, Lab. Mgmt. & Tech. (14)
John J. Barrett, ILS Tech. Writing (15)
Ronald C. Keller, ILS Prod. (15)
Frank D. Lofaro, Maint-Facil. Equip. & Gen. (17)
John F. O'Rourke, PPO-F-14 (25)
Domenick J. Gargiulo, Power Plt. Des. (25)
John A. DeGaetano, Cntrls. & Mech. (25)
William P. Bierds, Struct. Anal. (25)
Eli Botkin, Traj/Navig. Guid. Anal. (25)
Carl Rosenberg, Optic & Display Equip. Des. (25)
Alfonso Gennarelli, Tech. Direct. (25)
Thomas J. Fitzgerald, Corp. Instru. Syst. (25)
Everett K. Budd, Corp. Instr. Ground Test (25)
Frank A. Staiano, Prog. Qual. Mgt. (25)
Stephanie Albinski, Prog. Mgt. Space (25)
Humbert R. Fuentes, Config. Data Mgmt. (25)
George H. Watjen, Prod. Cntl.-Parts Cntrl. (30)
Harry J. Anderson, Prod. Cntl.-Parts Cntrl. (30)
John G. Schmidt, Prod. Cntl. Parts Cntrl. (30)
Edward Andreassen, Proc. Servs. (30)
Frank Eisinger, Subsystems (30)
Joseph E. Malat, Advance Plnng. (30)
Francis J. Newell, Mech. Parts/Raw Matl. (30)
Christy Ruvola, Mech. Parts/Raw Matl. (30)
Werner Dauber, Gen. Commodities (30)
Anthony A. Stallone, Gen. Subcontracts (30)
Louise R. Rossi, Matl. Mgt. M/S (30)
Richard Pawlowski, Audit Liaison (30)
Thaddeus R. Kosinski, QC Supplier (30)
Bertram Winston, Software Dev. (31)
Joseph D. Maniscalchi, Tech. Reqt. (32)
John A. Allsopp, ILS RF/Cntrls. (35)
Stanley Mendelsohn, Loads & Criteria (35)
Paul Schiffres, Radar (35)
Joseph U. Verzulli, Radar (35)
Julius Ditman, Software Syst. Ops. (35)
Thomas J. Dragone, Software Dev. (35)
Paul Power Jr., Matls, & Struct. Mech. (35)
Joshua Heisman, ILS Field Serv. Mgt. (35)
Kevin P. Ryan, Mfg. Prog. Mgt. (40)
Helen J. Fogle, ILS Secretarial Servs. (40)
William H. Rehm, ILS Reqt. Def. (40)
Karl H. Rehm, Reliability (40)
Richard G. Kaicher, Commun. Nav. & I.F.F. (40)
James A. Hilker, Computer Architecture (40)
Murray Romano, Elect. Equip. Des. (40)
Charels R. Holz, Software Anal. & Des. (40)
Irving Miller, Operations (40)
William Fischbach, Prog. Contracts (40)
Robert Wenzler, Prog. Plnng. Cntrl. & Budg. (40)
Lionel Wellington, Prod. Supv. (43)
John M. Browne, Prod. Cntrl. (43)
George L. Shuggarts, Prod. Rel. & Anal. (43)
Ronald Renick, Resources (43)
Cleveland C. Jones Jr., Invent. Mgt. (44)
George W. Barnes, Struct. Des. (72)

Circle your calendar: Dec. 6 - 25 year luncheon

Roy E. Appelgate Jr., E-2 Wings/F-14 Weapons (77)
Michelangelo Colletti, Personnel & Admin. (77)
Charles P. Harris, Engineering (88)
Warren I. Hlinka, Engineering (88)

July anniversaries - 15 years

Thomas Miller, Sub-Assy Major (1)
Adrian N. Hersey, Sub-Assy (1)
John Talko Jr., Sub-Assy (1)
Raymond C. Pinter, Fuse. Joining (1)
Joseph F. DeCesare Jr., ILS Elect. Eng. (1)
Andree F. Fogel, Cust. Supp. Reqts. Mgt. (1)
Martin M. Myles, Cust. Supp. Reqts. Mgt. (1)
Sam Longo, Insp-Mech. (1)
Giocchino J. Trapani, Pride Line (2)
Adam B. Kaczur, Ctr. Sect-Sub Assy (2)
Rocco A. Tarantino, Fuse. Joining (2)
Rita V. Endres, Project Mgrs. (2)
Edwin C. Duncan Jr., Mfg. Res. (2)
Henry H. Gerkens, Prod. Super. (2)
Thomas Bamundo, Prod. Cntl-Parts Cntrl. (2)
John J. Martinelli, Indust. Eng. (2)
Filomena Rainone, Matl. Mgt M/S (2)
John E. Luttinger, Templates (2)
Eileen J. Trowbridge, Mfg. eng. Mgt/Staff (2)
Richard L. Lucas, Alodine (3)
Russell T. Ewers Jr., Honeycomb Core Dtls. (3)
Frank Guenther, Honeycomb Core Dtls. (3)
Leonard A. Anderson Jr., Honeycomb Core Dtls. (3)
William E. Staab, Wing Final Assy (3)
Julius R. Marcucci, N/C Machs. (3)
Ralph A. Acquaro, N/C Machs. (3)
Robert L. Orf, Insp-Mech. (3)
William T. Conklin, QC Lab. (3)
Carl J. Cassie, Reliability (4)
Patricia L. Persico, ILS Secretarial Services (5)
Michael T. Hearney, ILS Elect. Pack. (5)
Roseanne Maglione, Finan. Ops. (5)
Thomas J. Carpenter, Ops. Mgt/Staff (5)
Mary Roy, Prog. Plnng. Cntrl. & Budg. (5)
Edward G. Branch, Maint.-Rearrangement (6)
Leland E. Young, Time Card Cntrl. (6)
Richard G. Bressler, Elect. Install. (6)
William Worth, Structures (6)
Ralph Bonness Jr., Support (6)
Leonard J. Mager, Support (6)
George Mujsce, Prod. Deputy & Statn Foreman (6)
Raymond Fischer, Jigs, Dtls. & Sub-Assy (6)
Ruth H. Gallager, QC Mgmt & Admin. (6)
Jerzy Pisarski, System Anal. (7)
Donald S. Stone, Elect. Countermeasure (7)
Robert J. Murray, Corp. Instru. Syst. (7)
Henry J. Stutzenstein, Maint. Rearrangement (12)
Edward M. Peterson, Hydraulics (14)
Edward J. Stenchever, Lab. Mgmt. & Tech. (14)
Vincent Maiorana, Repro Servs. (15)
John Nedbailo, ILS Pubs Cntrl. (15)
Ethel L. Plenty, ILS Secretarial Servs. (17)
James A. Sweeney, Trans-Ops. (20)
Francis S. Carl, Cntrl Receiving (24)
Roy E. Schauer, Mfg. Scheduling (25)
Harvey Glick, Environ. Cntrl. Des. (25)
Silvio R. Forte, On-Board Checkout (25)
Sylvester A. Rocchio, Elect. Equip. Des. (25)
Patrick A. McHugh, Corp. Intru. Syst. (25)
Josephine Buscarino, Insurance & Records & Ben. (28)
William V. Pellegrino, Mach. Parts/Matl. (30)
Edward H. Binder, General Subcontracts (30)
Frederick J. Dick, Power Pl. Des. (30)
William F. Schneider, Corp. Syst. (30)
James F. Sheehan Jr., Environ. Centrl. Des. (32)
Veronica M. Wenchell, Info. Rec. & Serv. (35)
Edward J. Franits, Electro. Mech. Des. (35)
Alice E. Corrigan, Personnel Liaison (35)
Joseph F. Cinquemani, Wing Inner Panel & Combo (36)
Bennie G. Turner, Router & Shear (37)
Edward A. Stroud, ILS Program Mgt. (40)
John J. O'Connell, ILS RF/Cntrls (40)
Lester G. Fieldsa, ILS Digital Eng. (40)
Louis Lengyel, Cust. Supply Reqts. Mgt. (40)
Ronald Glass, Food Serv. (40)
Frederick C. Fahner, Program Contracts (40)
Raymond T. Tuero, Config. Data Mgmt. (40)
George W. Voss, Drafting (43)
John E. Oest, Mech. Struct. & Assemb. (43)
Walter J. Murphy, Circuit Anal. (43)

T.G. Cunniffe

D. Shybunko

C. Wentzel Jr.

W.J. Cowan

L. Sciafani

N. Reid

R. Stevens

R. Biagiotti

William H. Frazier, Prod. Cntrl (43)
Joseph T. Ryan, Methods Eng. A/C (43)
Fred J. Petruchik, Reqts. Plnng. (43)
Theodore H. Weber, Insp. Elect. (43)
Michael A. Ventura, Elect. Box & Pan Fab. (44)
Gordon J. Knight, Avion. Purchasing (44)
Robert P. Pizzo, Avion. Purchasing (44)
Joseph J. Stalzer, Invent. Mgt. (44)
George J. Ciurleo, Invent. Mgt. (44)
Carl Rissland, Electronic/Elect. Prd. Supp. (53)
William J. Meyer, Support (88)
Richard St. Denis, Flight Ops. (89)

H. Hix

C. Checola

calendar

Toastmasters Club: Wed., Sept. 5 and Wed., Sept. 19, Pl. 25 conference room C, 5 p.m., educational program: "Public Speaking and Communications;" GAC employees welcome. P. Donagher, Ext. 6620

American Production and Inventory Control Society: Tues., Sept. 18, Musicaro's, Melville, 6:30 dinner; technical presentation: "Product Analysis with Return on Investment Versus Cash Flow Impact;" guest speaker: Don Hall; guest welcome. N. Heilweil, Ext. 2250

China-Burma-India Association: Wed., Sept. 12, Pl. 5 cafe; 5 p.m., Business and Social meeting; surprise guest speaker; by invitation only. W. Pytlowany, Ext. 2441

Coin Club: Wed., Sept. 12, and Wed., Sept 26, Pl. 25 vendor conference rooms, 12:05 p.m. GAC employees welcome. K. Hale, Ext. 3717

Computer Club: Wed., Sept. 5 and Wed., Sept. 19, Pl. 25 conference room; 5 p.m., swap personal computer problems, GAC personel only. A. Kung, Ext. 2520.

Disabled American Veterans Club: Wed., Sept. 12, Pl. 3 Cafe., 4 p.m. Any employee who is a disabled American Veteran is welcome. P. Conde, Ext. 3066

[*Continued on page 8*]

Personals

I wish to thank my co-workers for their kindness and sympathy during the recent loss of my mother. **Marino DiChiara**

On behalf of my children and myself, I wish to express our deep gratitude to all my husband's many friends and co-workers and Employee Services for their kind expression of sympathy during our recent loss. **The Schirmer Family**

Your kindness in this time of sorrow was appreciated, more deeply than you can ever know. **Gordon and Ruth Branch**

On behalf of my family and myself, I wish to extend our gratitude to the Grumman Employee Services for their thoughtfulness and kindness during the recent loss of our brother. **Anthony Uravitch**

My family and I wish to thank my co-workers and Employee Services for their expression of kindness and sympathy during the recent loss of my mother. **Vivian Agnoli**

Our family would like to express our appreciation to our friends, co-workers and Employee Services for their kindness and sympathy during our recent loss. **Scheuerlein and Jost Families**

My family and I would like to thank our friends, co-workers, and Employee Services for their thoughtfulness during the recent loss of our father, Mr. Johnny Booker. **Gladys Smith and Family**

My family and I would like to thank our many friends and co-workers and Employee Services for the expression of kindness during my recent convalescence. **Marvin Mitteldorf**

Our family would like to express our appreciation to all our friends for their kindness and sympathy during the recent loss of our father. **Patty Shivler Newark and John Newark**

My family and I wish to thank our friends, co-workers and Employee Services for their expression of kindness and sympathy during the recent loss of my mother. **James Ciccarello**

I would like to thank all my friends for their kindness and sympathy during the reent loss of my wife Jennie. **Lou Tucciarone, Sr.**

On behalf of my family and myself, I would like to thank my fellow Grummanites for their support and consideration given to us during the recent loss of my father. **The Haws Family**

On behalf of my children and myself, I wish to extend my sincere appreciation to all of my husband's friends, co-workers and Employee Services for their kindness and sympathy during the recent loss of my husband. **Josephine Colarossi and Family**

GAA's great winter getaways: Bermuda, Israel, Disney World

Christmas week in Bermuda or perhaps Disney World. Or February in Israel. These are some alternatives to a Long Island winter being offered by GAA.

Those wishing to vacation in Bermuda from Dec. 26 to Jan. 2 will be required to make a $100 deposit at sign-up night Sept. 5. The golf/tennis/beach trip includes airfare (Eastern), seven nights at the Belmont Hotel and breakfast and dinner each day. Prices: $600-single, $479 per person-double, $459 per person-triple.

If Orlando, Florida holds more appeal, GAA's tour will leave by Amtrack train the day after Chrismas. The package includes five nights at Holiday Inn East, discount tickets to various amusement sites and an Avis car. Adult prices range from $249 to $299 per person depending on the size of the car. The price for children (with two adults) is $69 under 12 and $99 over 12 years of age. Sign-up night is Monday, Sept. 17. Adult deposit is $100, children $50.

The trip to the Holy Land departs JFK on Monday, Feb. 11, by El Al Airlines and returns Feb. 21. There will be five nights in Jerusalem at the Plaza Hotel, two nights in Tiberias at the Plaza and two nights in Tel Aviv at the Sheraton. Breakfast and dinner are included. Cost: $1,214-single, $1,099 per person-double, $1,054 per person-triple. Children under 12 (with an adult)-$625. Sign up night ($100 deposit) is Sept. 24.

Employees, retired personnel, family and guests are eligible. Those interested should contact Ellen Drasser in the GAA office 2133 or 2269.

Waller's a winner

The pressures usually confronting a defending champ did not sideline Don Waller Jr. on his trek to the 1979 GAA golf tourney winner's circle. Waller shot a 74 to lead the pack at the Pine Hills Country Club on Tuesday, August 14.

Though all 144 Grumman golfers received a prize in the kicker's drawing, 14 participants walked away with trophies. Pete Obedzinski scored 76 to win the low gross for senior men. Joan Cetta carded a 104 to win the Women's division title.

Other winners were: low net - men, Sal Comitino, 85-20 for 65; low net - senior men, Pat Cherry, 81-12 for 69; low net - women, Elaine Ross, 129-59 for 70; low net - Callaway (men), Norm Lewin, 88-16 for 72; 2nd low gross, Caesar Roscigno, 77; 2nd low net, Don Lewis, 89-23 for 66; 2nd low net (seniors), Eugene Barkley, 89-19-70.

Jim Minsky hit the longest drive for the men, 270 yards, while Elaine Ross drove 200 yards to lead the women golfers. In the closest-to-the-pin competition, Joe Gambino and Elana Bernstein took top honors.

Time to celebrate. *Roger Ferguson (L), Weapon System Officer, recently marked his 1,000 flight hour in the F-14. Chief Test Pilot Chuck Sewell (R) was in the front seat on Roger's first F-14 flight back in 1971 and his recent milestone flight.*

Calendar

[*Continued from page 7*]

Scuba Divers Club: Wed., Sept. 12, Chateau. Restaurant, Half Hollow Hills, 7 p.m.; a movie will be shown; guests welcome. A. Andreiev, Ext. 5537

Family Campers: Fri., Aug. 31 thru Mon. Sept. 3, campout at Peconic picnic grounds; all GAC employees and dependants welcome. V. Casamo, Ext. 8554

Rod and Gun Club: is offering a series of Hunter Education classes this fall which are open to all GAC employees and their immediate families. For information contact G. Elias, Ext. 113-7716

Ski Club: Wed., Sept 12, The Barclay House, Hicksville, 8:30 p.m., first meeting of the winter season; guests welcome. A. Garmendia, Ext. 7819

Society of Mechanical Engineers: Wed., Sept. 5 Long Island Lighting Co., Hicksville, 7:30 p.m., executive committee meeting; closed meeting. L. Hemmerdinger Ext. 6168 Wed., Sept. 19, Plainview Library, Plainview, 8:00 p.m., "Improving Efficiency of Home Oil Furnaces;" open to first 100 people. L. Hemmerdinger, Ext. 6168

Vanpool note

The first Grumman vanpools are already on the road, and Field Administration is still recruiting new members. If you'd like to change the way you get to work, call Stan Kallman on Ext. 7444.

Benefacts

The annual benefits report won't be arriving with the Thanksgiving mail this year. The statement will be issued in the early spring, reflecting benefits as of December 31, 1979. Previously, statements covered benefits through September 30.

The Benefits Department will also attempt to give all employees over age 50 an accurate projection of their Social Security earnings. All Grummanites in that age group will be mailed a release of information card authorizing the department to obtain a report of their active earnings from the Social Security Administration.

If you have any questions, contact Dolores Stierle, Manager—Benefits Department on Ext. 3314.

GRUMMAN plane news

ADDRESS CORRECTION REQUESTED

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